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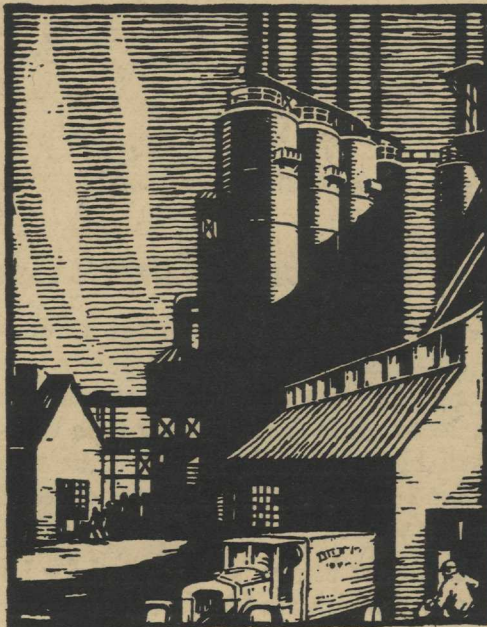
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THE OHIO STATE ENGINEER



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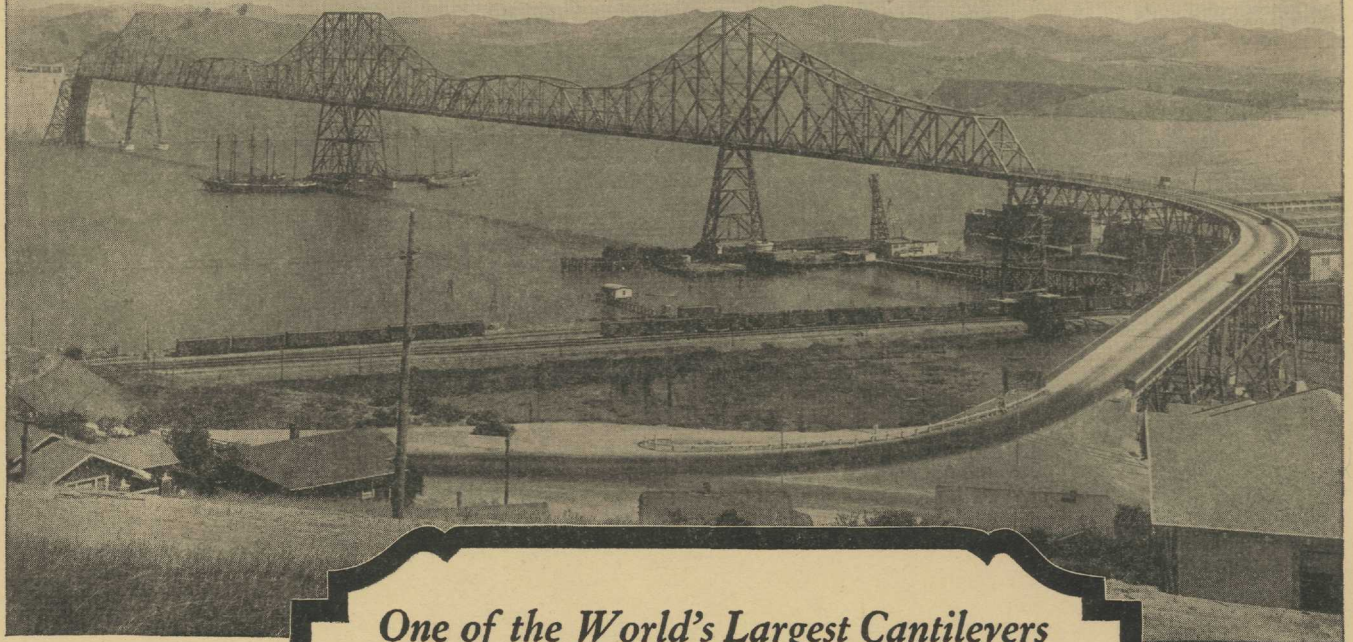
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Bridging Carquinez Strait



One of the World's Largest Cantilevers

THE new highway toll bridge across Carquinez Strait in California replaces an old historic ferry on the route from San Francisco east and north to Sacramento. It is the cantilever type with two main spans of 1100 feet each, making it the second largest of its kind in the United States and the fourth largest in the world.

The Carquinez bridge is also noted for its deep pier foundations which are 132 ft. below water level with a total height of 440 ft. The total length of the main structure is 3350 ft., including two anchor arms of 500 ft. each and a central tower span of 150 ft.

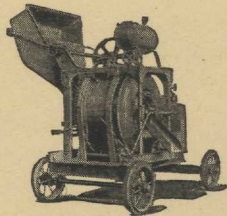
A Koehring 14S mixer was used in mixing the concrete for the floor of this giant cantilever and a ten year old Koehring mixer did the mixing for the piers—dominant strength concrete for lasting dependability. Three Koehring Heavy Duty Shovels excavated 207,000 cubic yards of material in building the 1.8 miles of the southern approach.

KOEHRING COMPANY

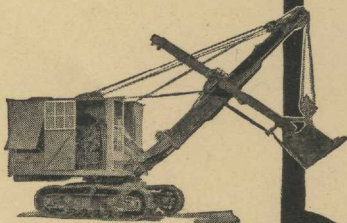
MILWAUKEE, WISCONSIN

Manufacturers of

Pavers, Mixers—Gasoline Shovels, Cranes and Draglines



Koehring Heavy Duty
Construction Mixer No. 14-S

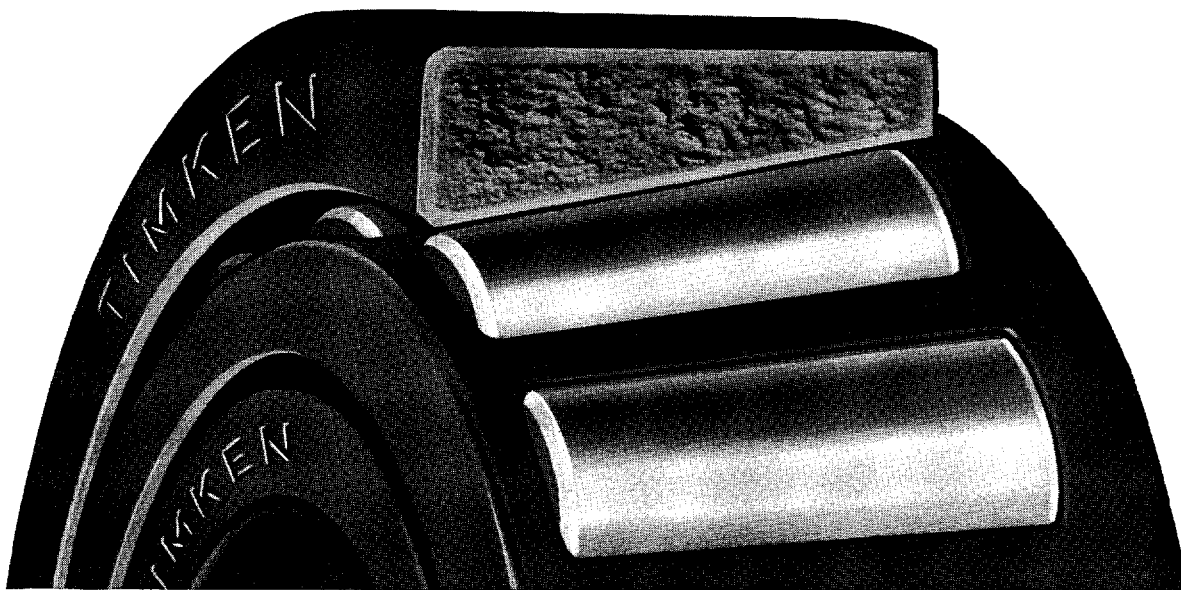


Koehring Heavy Duty Shovel
No. 301

The revised edition of "Concrete — Its Manufacture and Use," a complete treatise and handbook on present methods of preparing and handling portland cement concrete, is now ready for distribution. To engineering students, faculty members and others interested we shall gladly send a copy on request.



KOEHRING



Where Bearings Never had a Chance

In steel mills, in cement mills and in a few other places there are bearing jobs where the loads go beyond a million pounds! Here the trend to Timken Tapered Roller Bearings is even more marked than it is in general.

Timken Bearings are delivering their usual continuous, money-saving service on jobs which never allowed any other type of bearing more than a bare chance for life.

Aside from the maintenance savings, insurance against shutdown, and improvement in product, the power savings on Timken installations fre-

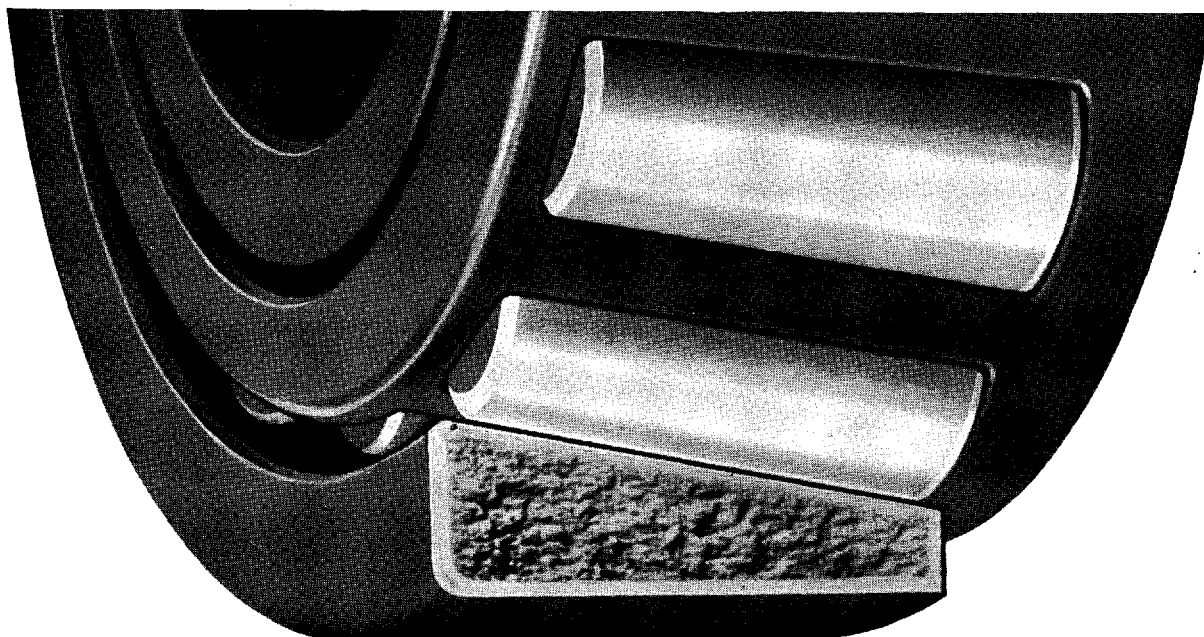
quently run as high as 35%. Cases are on record where 60% of power has been saved. And the cost of lubrication drops to a small fraction of what it once was.

No wonder the importance of Timken Bearings transcends the mere technicalities of "anti-friction." Timken Bearings have become a vital economic factor in the Industries.

As an engineer you will have more and more to do with the application of Timken Bearings. We shall be glad to send you interesting and valuable matter about them.

THE TIMKEN ROLLER BEARING CO., CANTON, OHIO

TIMKEN *Tapered Roller* **BEARINGS**



Pharaoh Wrote Few Letters



POST OFFICE, CAIRO, EGYPT

Now during the tourist season, the mails out of Cairo are tremendously heavy. And no wonder! Everyone who travels in Egypt, who comes into contact with the most ancient of civilizations, must say something about his impressions to someone—even if he has hitherto been a lazy correspondent. He may send only a postal card showing the Great Pyramid with “X showing the spot where I ate my luncheon.” But he must write something!

And since the discovery of the tomb of Tutankhamen, tourists have multiplied, impressions have been voluminous, and the mails have increased enormously. “Of course, you can’t imagine it without being here, but I simply must tell you about.....” And so on.

It is very lucky for the correspondents that with her wonders of antiquity, Egypt did not also inherit the ancient postal system. Only the Pharaohs and the great

officers of state could indulge in the luxury of corresponding with a foreign country—and a letter from the King of Egypt to the King of Babylon might take months in transit. Some of these royal letters have come down to us. They are very long, full of elaborate salutations and important news—as if their writers considered their composition the event of a season.

All things considered, we may be grateful that the modern postal system of Egypt is what it is—efficient, orderly, up-to-date. Of course, the Cairo Post Office is equipped with Otis Elevators.

So with the advance of civilization, Otis, the symbol of twentieth century convenience, has been put at the service of the Pharaohs of Egypt in spreading their fame far beyond any worlds which they could even have dreamed of! The pyramid builders would, we feel sure, appreciate the marvel.

OTIS ELEVATOR COMPANY

Offices in all Principal Cities of the World

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